general
U.S. Govt.
gt.

TABLE OF CONTENTS

The following synoptic table shows the first page of each of the principal sections in the respective numbers of the MONTHLY WEATHER REVIEW for 1925:

REGULAR MONTHLY SECTIONS

(Page number)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Weather Bureau Library: Recent additions and recent papers bearing on meteorology	28	79	121	167	223	265	315	360	401	450	499	543
Solar and sky radiation measurements during	29	82	123	168	226	267	318	362	402	452	501	546
North Atlantic Ocean	30	83	124	169	227	268	319	363	403	453	502	547
Table of ocean gales and storms	31	84	125	170	228	269	320	364	404	455	503	548
North Pacific Ocean	32	84	125	171	229	269	320	364	404	456	504	549
DETAILS OF THE WEATHER IN THE UNITED STATES:												
General conditions	33	86	126	173	229	270	321	366	407	457	506	550
Cyclones and anticyclones	33	86	126	173	229	270	321	366	407	457	506	550
Free-air summary	33	86	126	173	229	270	321	366	407	457	506	550
The weahter elements	35	88	128	175	232	272	323	368	409	459	508	552
Table of severe local hail and wind storms	36	89	130	176	233	274	325	369	411	461	509	553
Storms and weather warnings	37	90	131	178	235	276	328	372	413	462	510	554
Rivers and floods	39	91	132	179	236	277	328	372	415	464	511	556
Great Lakes' levels	41	93	133	180	237	278	329	373	416	465	512	557
Effect of weather on crops and farming operations	41	93	134	180	237	278	330	373	416	465	512	557
Decription of tables and charts	42											
Climatological table of U. S. Weather Bureau stations	43	94	135	181	238	279	331	374	417	466	513	558
Climatological table of Canadian stations	47	98	139	185	242	283	335	378	421	470	517	562

The following charts appear in each number of the REVIEW from January to December, inclusive, except as noted after Chart VI:

CHART I. Tracks of centers of anticyclones.
II. Tracks of centers of cyclones.
III. Departure of the mean temperature from the normal.
IV. Total precipitation for the month.
V. Percentage of clear sky.
VI. Isobars at sea level and isotherms at surface; prevailing winds.
VII. Total snowfall (January to April, and October to December).
VIII (etc.). Weather maps of the North Atlantic Ocean (selected days showing principal storm tracks).
XIII. (December only.) Paths of hurricanes and other tropical storms during 1925.
XIV. (December only.) Annual temperature departures for the United States, 1925.
XV. (December only.) Annual precipitation departures for the United States, 1925.

CORRECTIONS AND ADDITIONS

1918

MAY:

Page 241, in the table the crest stage at Knowlton, Wis., should be "15.7" on the 27th instead of "13.4" on the 29th.

1924

INDEX:

Page iii, second item under "January," after "8 a. m.," insert "for April."

MARCH:

Page 181, flood table, crest stage at Cumberland, Md., recorded "19.2" feet, should be "16.8" feet.

MAY:

Page 286, flood table, crest stage at Cumberland, Md., recorded "13.8" feet, should be "12.8" feet.

JUNE:

Page 333, column headed "Total wind movement," Los Angeles, recorded "30,730" miles, should be "3,730" miles.

SEPTEMBER:

Page 447, Table 1, under heading "August," "27" should be "17."

DECEMBER:

Page 564, first column, line 23, for "3" read "1."

Page 566, second column, line 8, for "min." read "max."

Page 569, Table 3, normal column, for "1.3" read "4.3," and for July, "3.4" read "3.8."

Table of Contents, second column, under heading "Charts" omit the words "not charted" after Chart VII.

1925

JANUARY:

Table of Contents, second column, under heading "Charts" omit the words "not charted" after Chart VII.

FEBRUARY:

Table of Contents, second column, under heading "Charts" omit the words "not charted" after Chart VII.

Table of Contents, second column, under heading "Charts" the Roman numeral "XIV" should be "XI"; at the end of the same line, "14" should be "11."

Page 29, first column, fifth line of bold-face type, "Gorzcynski" should have an acute accent over the "n."

MARCH:

Page 101, first column, third line below the legend to Figure 3, "4,000 meters" should be "4,000 feet."

MAY:

Page 207, second column, the equation below Table 3 should read:

$$r^1 = (S^{12}_{2\cdot1}\ rdT):\ 9.9$$

JUNE:

Page 248, Table 1, the minimum temperature on April 23 and 24 should be "53" and "62," respectively.

SEPTEMBER:

Page 300, second column, fourth paragraph from bottom, fourth line, for "771 inches" read "771 milimeters."

OCTOBER:

Page 441, Figure 1, the legend should be: "Tornadoes, inclosed by heavy line; thunderstorms, by broken line."

SUBJECT AND AUTHOR INDEX OF THE MONTHLY WEATHER REVIEW, 1925, VOL. 53

Abbe, Cleveland. *Cited on* Editorial revision with reference to the Monthly Weather Review. 542.
Abnormalities. The question of. 164–165.
Aerology:
An account and analysis of the Meisinger free-balloon flights. (V. E. Jakl) (10 figs.) 99–107.
An analysis of free-air observations in their relation to precipitation. (V. E. Jakl) (12 figs.) 335–343.
Average free-air winds at Lansing, Mich. (C. L. Ray) (3 figs.) 16–20.
Energy distribution in the visible spectrum of sunlight and skylight. (H. H. Kimball) (3 figs.) 112–115.
International Commission for Investigation of the Upper Air. (E. Gold) *Repr.* 218–219.
Investigation of the dust content of the atmosphere. (H. H. Kimball and I. F. Hand) (4 figs.) 243–246.
Measurement of upper-air velocities by observation of artificial clouds. (C. D. Stewart) 165.
Meteorological aspects of the San Francisco-Hawaii airplane flight. (T. R. Reed) (2 figs.) 384–387.
The meteorological conditions in the free air during two extreme weather types. (W. Peppler) *Transl. L. T. S.* 220–221.
Orographic wind as an aid to gliding flight in airplanes. *Abstr. B. M. V.* 222.
Sampling the higher atmosphere. (W. J. Humphreys) 352–353.
Some outstanding aerological problems. (W. R. Gregg) 14–16.
Special aerological observations during the solar eclipse of January 24, 1925. (L. T. Samuels) 23.
Temperature and humidity of the upper air at San Diego, Calif. (B. H. Wyatt) 349.
Upper-air observations at Apia [Samoa] Observatory. (A. Thomson) (2 figs.) 255–256.
Aeronautics. *See also* Pilot-balloons; Balloon races. The present meteorological needs of. (F. W. Reichelderfer) 259.
Africa. Gales in the Indian Ocean off the African coast. (A. J. McCurdy, jr.) 172.
Alabama:
Tornadoes in, 1794–March, 1925. (W. R. Stevens) (5 figs. and 1 chart) 437–443.
Montgomery. The probable 24-hour temperature change at. (Jesse W. Smith and W. R. Stevens) 306–308.
Algué, José. Resignation from the Philippine Weather Bureau. (B. M. Varney) 542.
Allen, Charles C. Tropical cyclones of October 22–25, 1925, off the west coast of Mexico, additional note on. 505–506.
Amundsen, Roald. Amundsen's ships reach Spitzbergen. *Abstr.* 120.
Antevs, Ernst. The big trees as a climatic measure. *Abstr.* 449–450.
Apia [Samoa] Observatory. Upper-air observations at. (A. Thomson) (2 figs.) 255–256.
Arctic exploration. Amundsen's ships reach Spitzbergen. *Abstr., A. J. H.* 120.
Arctic Ocean. Ice in the Arctic seas in 1924. *Repr.* 166.
Arctic region:
Meteorological conditions in the Eurasian sector of the Arctic. (B. M. Varney) (1 fig.) 475–479.
The north-polar cover of cold air. (H. U. Sverdrup) (4 figs.) 471–475.
Argentina. *See* **Navarrete, J. B.**
Arkansas, *Fort Smith.* The east wind and its lifting effects at. (T. G. Shipman) 536–539.
Ashenberger, Albert. Two waterspouts in Mobile Bay, June 12, 1925. 309.
Astronomical cycles. *See also* Periodicities. On the application to meteorology of the astronomical cycle of 744 years. (J. Gabriel) *Transl., B. M. V.* 312.
Atmosphere. On the changes in the lower atmosphere by conduction and otherwise. 264.
Atmospheric pollution. Investigation of the dust content of the atmosphere. (H. H. Kimball and I. F. Hand) (4 figs.) 243–246.
Avoca Basin [Ireland]. The increasing runoff from (due apparently to deforestation) (E. T. Quayle) *Repr.* 263.
Baker Island. Meteorological conditions on. (W. G. Ramsay) 23–24.
Balloon races. *See* International Balloon Race; National Elimination Balloon Race.
Baur, Franz.
The 11-year period in temperature in the Northern Hemisphere in relation to the 11-year sunspot cycle. (2 figs.) 204–207.
The three to three-and-a-half-year periodic pressure oscillation in the free atmosphere. *Transl., H. C. F.* 392–394.
Beaufort scale. Use of, by the U. S. Weather Bureau. (B. M. Varney) *Note.* 119–120.
Berlin [Germany]. Mild winter of 1924–25. *Note, A. J. H.* 222.
Bermuda. A 55-year record of rainfall at Hamilton. (W. H. Potter) 23–24.
Besson, Louis. The rainfall capacity of the Equatorial Current: a periodic factor in climate. (2 figs.) *Transl., B. M. V.* 260–261.
Bibliography. *See* Weather Bureau Library in table on page iii of this index.
Big trees. As a climatic measure. (E. Antevs.) *Abstr., A. J. H.* 449–450.
Blochman, L. E. A study of seasonal forecasting for California based on an analysis of past rainy seasons. 489–493.
Bolivia. *See* South America.
Bonacina, L. C. W. The question of "abnormalities." 165.
Brazil. *See* South America.
British Columbia. The climate of. (F. N. Denison.) 354.
Brooks, Charles F.
The cooling of man under various weather conditions. 423–424.
Coronas and iridescent clouds. 49–58.
Introductory note to papers on the relation of the atmosphere to human comfort. 423.
Looming and multiple horizons. 313.
California:
Ocean temperatures and seasonal rainfall in southern California. (G. F. McEwen.) (9 figs.) 483–489.
Seasonal precipitation in, and its variability. (B. M. Varney.) Part I (4 figs.), 148–163; Part II (8 figs.) 208–218.
A study of seasonal forecasting for California based on an analysis of past rainy seasons. (L. E. Blochman.) 489–493.
Temperature and humidity of the upper air at San Diego (B. H. Wyatt.) 349.
Calvert, Edgar B.
Fruit-spray and harvesting-weather work of the Weather Bureau in New York State. 70–71.
Weather forecasting as an aid in preventing and controlling forest fires. 187–190.
Canadian climatological table (monthly report). (*See* Table on page iii of this Index.)
Canal Zone. *See* Panama Canal Zone.
Chapman, S. On the changes of temperature in the lower atmosphere by conduction and otherwise. *Repr.* 264.
Chile. (*See* South America.)
Chu, Coching. The place of origin and recurvature of typhoons. 1–5. (fig.) [Concluded from Dec., 1924, REVIEW.]
Church, J. E., jr. Wide-area forecasting of streamflow on the Columbia and Colorado. 353–354.
Cirro-cumuli and thunderstorms. (R. M. Dole.) 310.
Clayton, Henry Helm. Solar variations. (2 figs.) 522–525.
Climate:
In general—
The climates of the United States. (R. De C. Ward) *Review* by B. M. Varney. 540–541.
Variations of—
The big trees as a climatic measure. (E. Antevs.) *Abstr., A. J. H.* 449–450.
A classification of weather types. (E. S. Nichols) 431–434.
The cooling of man under various weather conditions. (C. F. Brooks) 423–424.

Climate—Continued.
Variations of—Continued.
Human comfort as a basis for classifying weather. (E. C. Donnelly) (2 figs.) 425–426.
Introductory note to papers on the relation of the atmosphere to human comfort. (C. F. Brooks) 423.
Mascart on changes in. *Review, B. M. V.*, 315.
Monthly forecasts by correlation: June, a key month. (C. D. Reed) (4 figs.) 249–251.
The rainfall capacity of the Equatorial Current: a periodic factor in climate. (L. Besson) (2 figs.) *Transl., B. M. V.* 260–261.
The summer and winter weather of selected cities in North America. (G. F. Howe) (4 figs.) 427–430.
Weather types in the climates of Mexico, the Canal Zone, and Cuba. (J. E. Switzer) (1 fig.) 434–437.
Climatological table for U. S. Weather Bureau stations. *See* table on page iii of this index.
Climatology:
The climate of British Columbia. (F. N. Denison) 354.
The climate of Oregon during the Pleistocene Period. (E. T. Hodge) 354–356.
The climate of Trinidad, B. W. I. (P. E. James) (4 figs.) 71–75.
The climates of the United States. (R. De C. Ward) Review by B. M. Varney. 540–541.
Monthly meteorological summary for southern South America. *See* South America.
Rainfall correlations in Trinidad, B. W. I. *Abstr., B. M. V.* 76.
Cloud heights determined from coronas. (C. F. Brooks) 49–58.
Clouds. (*See also under specific names, as* Cumulus, Nimbus, *etc.*)
Coronas and iridescent clouds. (C. F. Brooks) 49–58.
Measurement of upper-air velocities by observation of artificial clouds. (C. D. Stewart) 165.
Clough, Homer W. A statistical analysis of solar radiation data. (1 fig.) 343–348.
Colorado River. Wide-area forecasting of streamflow on. (J. E. Church, jr.) 353–354.
Cook, Albert W. The prediction of minimum temperatures for The Red River Valley. (3 figs.) 443–447.
Coronas:
Double anti-solar corona by reflected sunlight. (C. F. Brooks) 399.
Coronas and iridescent clouds. (C. F. Brooks) 49–58.
Coronas, José. Typhoons and depressions over the Pacific Ocean (monthly report during typhoon season): July, 321; August, 365–366; September, 495–496; October, 456–457; November, 505; December, 549–550.
Correlation. (*See also* Cycles; Meteorology, *agricultural;* and *mathematics in;* Solar relations)
Cotton growing in relation to climate in Egypt and the Sudan. *Abstr. J. B. K.* 118–119.
Monthly pressure variations in the Northern Hemisphere and seasonal weather forcasting. (A. J. Henry) 528–534.
Ocean temperatures and seasonal rainfall in southern California. (G. F. McEwen) (9 figs.) 483–489.
Cotton growing. In relation to climate in Egypt and the Sudan. *Abstr., J. B. K.* 118–119.
Cover crops. Further study of the relation between cover crops and orchard temperatures. (F. D. Young) (8 figs.) 387–391.
Coyecque, M. and Wehrlé, Ph. Hatteras depressions. Transl., B. M. V. 26–27.
Cranberry bogs. Value of smudge pots in preventing frost in. (R. A. Wells, and P. Parker) (2 figs.) *Abstr., F. D. Young.* 351–352.
Cuba. Weather types in the climate of. (J. E. Switzer) (1 fig.) 434–437.
Cycles. (*See also* Periodicities) The three to a three-and-a-half-year periodic pressure oscillation in the free atmosphere. *Transl., H. C. F.* 392–394.
Cyclones and anticyclones: (*See also* Forecasting; Hurricanes; Typhoons; Winds (4) (5).
Hatteras depressions. (M. Coyecque and Ph. Wehrlé) *Transl., B. M. V.* 26–27.
Some observations on the cyclonic precipitation of February 22–23, 1925, in the central and eastern United States. (R. H. Weightman) (3 figs.) 379–384.
Tropical cyclones during 1925. (W. P. Day) (1 fig.) 540.
Day, Preston C. The drought of 1925. 310–311. (See also "The Weather Elements," and "Climatological Tables" in table on page iii of this index.
Day, Wilfred P. (*See also* "Cyclones and anticyclones" in table on page iii of this index.) "Tropical cyclones during 1925. (1 chart) 540.
Daylight illumination on a sloping surface—a correction. (H. H. Kimball) 448.
Daylight intensity. Records of total solar radiation and their relation to daylight intensity. (H. H. Kimball) 20.
Deforestation. The increasing run-off from Avoca Basin [Ireland] due apparently to deforestation. (E. T. Quayle) *Repr.* 263.
Delcambre, E. The meteorological work of the *Jacques Cartier. Transl., B. M. V.* 25–26.
Denison, F. N. The climate of British Columbia. 354.
Desert Meteorology and desert road-building. *Repr.* 263.
Dole, Robert M. Cirro-cumuli and thunderstorms. 310.
Dominican Republic. Report on the West Indian hurricane of August 28–September 6, 1924. (F. H. Swain) (1 fig.) 77–78.
Donnelly, E. C. Human comfort as a basis for classifying weather. (2 figs.) 425–426.
Dorno, C.:
Fluctuations in the values of solar constant. 519–521.
Radiation and polarization measurements during the solar eclipse of April 8, 1921, at Davos, Switzerland. 208.
Dorsey, N. Ernest. The effects of a lightning stroke. (9 figs.) 479–483.
Droughts:
The drought of 1925. (P. C. Day) 310–311.
Drought and flood in Mexico. *Abstr., B. M. V.* 313–314.
The dry season of 1925 in the Panama Canal Zone. (R. Z. Kirkpatrick) 357–359.
Record of dry spells at Nashville, Tenn., 1871–1925. (R. Nunn) 398.
Dust. Investigations of the dust content of the atmosphere. (H. H. Kimball and I. F. Hand) (4 figs.) 243–246.
East wind and its lifting power at Fort Smith, Ark. (T. G. Shipman) 536–539.
Egypt. Cotton growing in relation to climate in Egypt and the Sudan. *Abstr., J. B. K.* 118–119.
El Niño Current. *See* Humboldt Current.
El Salto Observatory. *See* **Navarrete, J. B.**
Equator. Ocean temperatures across the Equator. (W. J. Humphreys) (1 fig.) 146–147.
Equatorial Current. The rainfall capacity of, a periodic factor in climate. (L. Besson) (2 figs.) *Transl., B. M. V.* 260–261.
Eshleman, Cyrus H. Are present methods of rainfall insurance sound? 310–311.
Eurasia. Meteorological conditions in the Eurasian sector of the Arctic. (B. M. Varney) (1 fig.) 475–479.
Europe (northwestern). Mild winter, 1924–25. *Excpts.* 79.
Evaporation measurements in the Swiss Alps. (1 fig.) *Abstr., B. M. V.* 355–356.
Excessive precipitation. Intense rainstorm of July 3, 1925, at Dubuque, Iowa. *Abstr., B. M. V.* 314.
Exner, Felix M. On world pressure and temperature anomalies. *Abstr., R. S. R.* 541.
February. The warm February, 1925, in the United States. (A. J. Henry) (4 figs.) 191–198.
Ferraz, J. de Sampaio. Meteorological summary for Brazil, November, 1925. 499.
Fire-weather warnings. Weather forecasting as an aid in preventing and controlling forest fires. (E. B. Calvert) 187–190.
Flooding of a pasture by hail. 261.
Floods (*see also* Rivers and Floods, on p. iii of index):
Drought and flood in Mexico. *Abstr., B. M. V.* 313–314.
Kansas, *Wichita.* Flood protection in. (S. P. Peterson) 133–134.
Oregon. Floods in the Willamette River. (E. L. Wells) 355.
Fog. The London fog of January 10–11, 1925. *Abstr., B. M. V.* 165.
Footnotes and citations in contributions to the Monthly Weather Review. (B. M. Varney) 542.
Forecasting:
From local observations—
Cirro-cumuli and thunderstorms. (R. M. Dole) 310.
Fruit-spray and harvesting-weather forecast work of the Weather Bureau in New York State. (E. B. Calvert) 70–71.
Ocean temperatures and seasonal rainfall in southern California. (G. F. McEwen) (9 figs.) 483–489.
The prediction of minimum temperatures for the Red River Valley. (A. W. Cook) (3 figs.) 443–447.

Forecasting—Continued.
From local observations—Continued.
The probable 24-hour temperature change at Montgomery, Ala. (Jesse W. Smith and W. R. Stevens) (1 fig.) 306–308.
The rain-bearing winds at Atlanta, Ga. (C. F. von Herrmann) (2 figs.) 494–497.
A study of seasonal forecasting for California based on an analysis of past rainy season. (L. E. Blochman) 489–493.
Using weather forecasts for predicting forest-fire danger. (H. T. Gisborne) (fig.) 58–60.
Wide-area forecasting of streamflow on the Columbia and the Colorado. (J. E. Church, jr.) 353–354.
From collected observations—
Are present methods of rainfall insurance sound? (C. H. Eshleman) 310–311.
Correlation in seasonal variations of weather: A further study of world weather. (Gilbert T. Walker) *Abstr., A. J. H.* 252–254.
Fruit-spray and harvesting-weather forecast work of the Weather Bureau in New York State. (E. B. Calvert) 70–71.
Monthly forecasts by correlation: June, a key month. (C. D. Reed) (4 figs.) 249–251.
Monthly pressure variations in the Northern Hemisphere and seasonal weather forecasting. (A. J. Henry) 528–534.
The solar constant as an aid to forecasting. 76–77.
Weather forecasting as an aid in preventing and controlling forest fires. (E. B. Calvert) 187–190.
Forest fires:
The forest-fire season at different elevations in Idaho. (J. A. Larsen) (1 fig.) 60–63.
Rainfall probability during the fire season in western Washington and Oregon. (T. T. Munger) (2 figs.) 394–397.
Using weather forecasts for predicting forest-fire danger. (H. T. Gisborne) (1 fig.) 58–60.
Weather forecasting as an aid in preventing and controlling forest fires. (E. B.Calvert) 187–190.
Formosa. Typhoon in, August, 1925. (J. Coronas) 365–366.
Frankenfield, Harry C. "Rivers and floods." (Monthly report) (*See* table on page iii of this index.)
Frost-fighting:
Development and present status of frost-fighting devices. (F. D. Young) (3 figs.) 349–351.
Further study of the relation between cover crops and orchard temperatures. (F. D. Young) (8 figs.) 387–391.
Value of smudge-pots in preventing frost in cranberry bogs. (2 figs.) (R. A. Wells and P. Parker) *Abstr., F. D. Y.* 351–352.
Fruit-spraying. Fruit-spray and harvesting-weather forecast work of the Weather Bureau in New York State. (E. B. Calvert) 70–71.

Gabriel, Jules. On the application to meteorology of the astronomical cycle of 744 years. *Transl., B. M. V.* 312.
Gales. Monthly table of gales on the North Atlantic and North Pacific Oceans. 31, 84, 125, 170, 228, 269, 320, 364, 404, 455, 503, 548.
Georgia. The rain-bearing winds at Atlanta. (C. F. von Herrmann) (2 figs.) 494–497.
Gisborne, H. T. Using weather forecasts for predicting forest-fire danger. (1 fig.) 58–60.
Gliding flight. *See* Orographic winds.
Gold, E. International Committee for the Investigation of the Upper Air. *Repr.* 218–219.
Goutereau ratio. Discussion of, by E. W. Woolard. 108–111.
Gray, Richard W. The tornado of April 5, 1925, near Miami, Fla. 145–146.
Great Lakes levels. Monthly report. *See* table on page iii of this index.
Gregg, Willis Ray. Some outstanding aerological problems. 14–16.
Gulf Stream:
March, 1925, position of the Gulf Stream and the Labrador Current. *Note.* 120.
Warm winters in Siberia and their dependence on the condition of the Gulf Stream. *Note, B. M. V.* 165–166.

Hailstorms (*see also* Storm damage):
Flooding of a pasture by hail. 261.
Hailstorm of Sunday afternoon, May 24, 1925, at Baltimore, Md. (J. H. Spencer) 261–262.
Haines, William C. A remarkable two-theodolite pilot-balloon series. (1 fig.) 68–70.
Hand, Irving Forrest. (*See also* "Solar and sky radiation measurements" under entry "United States,")
Effect of local smoke on visibility and solar radiation intensities. (1 fig.) 147–148.
Co-author. *See* **Kimball** and **Hand.**
Harvesting. Fruit-spray and harvesting-weather forecast work of the Weather Bureau in New York State. (E. B. Calvert) 70–71.
Hawaii. Hawaiian rainfall. (A. J. Henry) 10–14.
Henry, Alfred Judson.
Amundsen's ships reach Spitzbergen. *Abstr.* 120.
The criteria of a cold winter. 67–68.
Hawaiian rainfall. 10–14.
High maximum temperatures in late spring of 1925. (1 fig.) 246–248.
McEwen's and Blochman's papers, comments on. 493–494.
Marvin and Day on normals of daily temperature in the United States. 117–118.
Meteorological data for Midway Island, North Pacific Ocean. 357.
Monthly pressure variations in the Northern Hemisphere and seasonal weather forecasting. 528–534.
Pressure over the northeastern Pacific and weather in the United States, December, 1924, and January, 1925. (4 figs.) 5–10.
The tornadoes of March 18, 1925, in Indiana, Illinois, and Tennessee. (3 figs.) 141–145.
The warm February (1925) in the United States. (4 figs.) 191–198.
The weather of 1925 in the United States. (2 charts) 539–540.
Hibbard, F. N.
A new type of rain timer. (3 figs.) 398–399.
A short method of determining the time of moonrise and moonset. 447–448.
Hildebrandsson, Hildebrand H. (1838–1925.) Obituary. (C. F. Talman) 311.
Hodge, Edwin T. The climate of Oregon during the Pleistocene Period. 354–355.
Holt, F. P. Incipient tornado in Idaho. 314.
Horizons. Looming and multiple. *Note, C. F. B.* 313.
Howe, George F. The summer and winter weather of selected cities in North America. (4 figs.) 427–430.
Howland Island. Meteorological conditions on. (W. G. Ramsey) 23–24.
Human comfort. *See* Meteorology (11).
Humboldt Current. Recent oceanographic phenomena along the coast of South America. (R. C. Murphy) 116–117.
Returns to normal. *Repr.* 264.
Humphreys, William Jackson.
Ocean temperatures across the Equator. (1 fig.) 146–147.
Sampling the higher atmosphere. 352–353.
Hunter, Herbert Colman. Tornadoes of the United States, 1816–1923. (2 figs.) 198–204.
Hurd, Willis Edwin. (*See also* "North Pacific Ocean" in table on page iii of this index.)
Note on a monsoon in August, 1925, in the Indian Ocean. 365.
Waterspout in the South Pacific Ocean. *Note.* 505.
Hurricanes (*see also* Storm damage; Typhoons):
Geographical distribution—
Tropical cyclones during 1925. (W. P. Day.) (1 chart) 540.
Mexico, October 22–25, 1925. (C. C. Allen) 505–506.
West Indies, August 28–September 6, 1924. (F. H. Swain) 77–78.
Do.
Chronological distribution—
1924, August 28–September 6, West Indies. (F. H. Swain) (1 fig.) 77–78.
1925, October 22–25, Mexico. (C. C. Allen) 505–506.
Hygrometers, hair. On the reliability of. (L. T. Samuels) (1 fig.) 534–536.
Hydrology (*see also* Floods; Hydrography; Rivers and floods; Springs; Wells):
The Humboldt Current returns to normal. *Repr.* 264.
The increasing run-off from Avoca Basin [Ireland] (due apparently to deforestation) (E. T. Quayle) *Repr.* 263.

Hydrology—Continued.
River regulation. 359.
Wide-area forecasting of stream flow on the Columbia and the Colorado. (J. E. Church, jr.) 353–354.

Ice conditions in the Artic seas in 1924. *Note.* 166.
Ice spicules. Precipitation in the form of ice spicules at temperatures near freezing. (F. N. Weck) 497–498.
Idaho:
The forest-fire season at different elevations in Idaho. (J. A. Larsen) (1 fig.) 60–63.
Incipient tornado in. (F. P. Holt) 314.
Indian Ocean:
Gales off the African coast. (A. J. McCurdy, jr.) 172.
Note of a monsoon in August, 1925. (W. E. Hurd) 365.
Insurance, rainfall. Are present methods of rainfall insurance sound? (C. H. Eshleman) 310–311.
International Commission for the Investigation of the Upper Air. (E. Gold) *Repr.* 218–219.
International Commission on Solar Radiation. 312–313.
Iowa:
Intense rainstorm of July 3, 1925, Dubuque, Iowa. *Abstr., B. M. V.* 314.
Tornadoes in, June, 1925. *Table, A. H. Christensen.*
Iridescence. Coronas and iridescent clouds. (C. F. Brooks) 49–58.

Jacques Cartier (steamship). The meteorological work of. (E. Delcambre) 25–26.
Jakl, Vincent E. (*See also* "Free-air summary," monthly, in table on page iii of this index.)
An account and analysis of the Meisinger free-balloon flights. (10 figs.) 99–107.
An analysis of free-air observations in their relation to precipitation. (12 figs.) 335–343.
James, Preston E. The climate of Trinidad, B. W. I. (4 figs.) 71–75.
Japan. Two typhoons in, August, 1925. (J. Coronas) 365–366.
Jaumotte, J. An extraordinary case of supersaturation in the free air. *Abstr., B M. V.* 79.
Jordan, David Starr. The art of pluviculture. *Repr.* 261.

Kadel, Benjamin C. A rain-gage of standard commercial materials and parts. (2 figs.) 66–67.
Kansas. Flood protection in Wichita. (S. P. Peterson) 133–134.
Kelsey, Keith. A new method of charting storm frequency. (2 figs.) 251–252.
Kimball, Herbert Harvey. (*See also* "Solar and sky radiation measurement," monthly report.) (*See* table on page iii of this index.)
Daylight illumination on a sloping surface—a correction. 448.
Energy distribution in the visible spectrum of sunlight and and skylight. (3 figs.) 112–115.
Local brightness of ultra-violet light. (F. W. P. Götz) *Abstr.* 117.
Observations on the solar eclipse of January 24, 1925, at Washington, D. C. 22–23.
Records of total solar radiation and their relation to daylight intensity—a correction. 20.
Smithsonian solar-constant values. (3 figs.) 303–306.
Solar-variation papers by Dorno and Clayton, discussion of. 527–528.
Kimball, H. H. and **Hand, I. F.** Investigation of the dust content of the atmosphere. (4 figs.) 243–246.
Kincer, Joseph B. Cotton growing in relation to climate in Egypt and the Sudan. (C. B. Williams) *Abstr.* 118–119.
(*See also* "Effect of weather on crops and farming operations," monthly report.) (*See* table on page iii of this index.)
Kirkpatrick, R. Z. The dry season of 1925 in the Panama Canal Zone. 357–359.

Labrador Current. The March, 1925, position of the Gulf Stream and the Labrador Current. *Note.* 120.
Larsen, J. A. The forest-fire season at different elevations in Idaho. (fig.) 60–63.
Lightning. The effects of a lightning stroke. (N. E. Dorsey) (9 figs.) 479–483.
Looming and multiple horizons. *Note, C. F. B.* 313.
London. The fog of January 10–11, 1925. *Abstr., B. M. V.* 165.
Long-range forecasting. *See* Periodicities.
Luzon. One destructive typhoon in, during June, 1925. (J. Coronas) 321.

McCurdy, Albert J., jr.
Gales in the Indian Ocean off the African coast. 172.
Gales in the South Atlantic and the South Pacific oceans. *Note.* 227.
McEwen, George F. Ocean temperatures and seasonal rainfall in southern California. (9 figs.) 483–489.
Marvin, Charles F.
Day-to-day fluctuations in the derived values of the solar constant, on the question of. (7 figs.) 285–303.
Solar-variation papers by Dorno and Clayton, discussion of. 525–527.
Maryland. Hailstorm of Sunday afternoon, May 24, 1925, at Baltimore. (J. H. Spencer) 261–262.
Mascart, Jean. On changes of climate. *Review, B. M. V.* 315.
Meisinger, C. Le Roy. *See* Balloon flights.
Meseguer, Emique. New chief of the Servicio Meteorologico Español. *Note.* 120.
Meteorology:
In general—
The new ideas in meteorology. *Repr.* 400.
Aeronautical meteorology—
An account and analysis of the Meisinger free-balloon flights. (V. E. Jakl) (10 figs.) 99–107.
Meteorological aspects of the San Francisco-Hawaii airplane flight. (T. R. Reed) (2 figs.) 384–387.
National Elimination Balloon Race from St. Joseph, Mo., May 1, 1925. (From notes by W. S. Belden) 222.
The present meteorological needs of aeronautics. (F. W. Reichelderfer) 259.
Some outstanding aerological problems. (W. R. Gregg) 14–16.
Special aerological observations during the solar eclipse of January 24, 1925. (L. T. Samuels) 23.
Agricultural meteorology—
Cotton growing in relation to climate in Egypt and the Sudan. *Abstr., J. B. K.* 118–119.
Development and present status of frost-fighting devices. (F. D. Young) (3 figs.) 349–351.
Fruit-spray and harvesting-weather forecast work of the Weather Bureau in New York State. (E. B. Calvert) 70–71.
Further study of the relation between cover crops and orchard temperatures. (F. D. Young) (8 figs.) 387–391.
Value of smudge-pots in preventing frost in cranberry bogs. (R. A. Wells and P. Parker) (2 figs.) 351–352.
Commercial meteorology—
Meteorology and desert road building. *Repr.* 263.
Legal meteorology—
River and rainfall record in an important lawsuit.
Marine meteorology—
Gales in the Indian Ocean off the African coast. (A. J. McCurdy, jr.) 172.
The meteorological work of the *Jacques Cartier.* (E. Delcambre) 25–26.
Oceanography and meteorology of the Pacific. (B. M Varney) *Note.* 498.
Ocean temperatures and seasonal rainfall in southern California. (G. F. McEwen) (9 figs.) 483–489.
Ocean temperatures across the Equator. (W. J. Humphreys) (1 fig.) 146–147.
Report on the West Indian hurricane of August 28–September 6, 1924. (F. H. Swain) (1 fig.) 77–78.
Mathematics in meteorology—
Application to meteorology of the astronomical cycle of 144 years, on the. (J. Gabriel) *Transl., B. M. V.* 312.

Meteorology—Continued.
Mathematics in meteorology—Continued.
Correlation in seasonal variations of weather: A further study of world weather. (Gilbert T. Walker) *Abstr., A. J. H.* 252–254.
The 11-year period in temperature in the Northern Hemisphere in relation to the 11-year sunspot cycle. (F. Baur) (2 figs.) 204–207.
Frequencies of selected relations between temperature and relative humidity. *Abstr., B. M. V.* 120.
Monthly forecasts by correlation: June, a key month. (C. D. Reed) (4 figs.) 249–251.
Monthly pressure variations in the Northern Hemisphere and seasonal weather forecasting. (A. J. Henry) 528–534.
On the mean variability in random series. (E. W. Woolard) 107–111.
On the question of day-to-day fluctuations in the derived values of the solar constant. (C. F. Marvin) (7 figs.) 285–303.
Smithsonian solar-constant values. (H. H. Kimball) (3 figs.) 303–306.
A statistical analysis of solar radiation data. (H. W. Clough) (1 fig.) 343–348.
The three to three-and-a-half-year periodic pressure oscillation in the free atmosphere. (F. Baur) *Transl., H. C. F.* 392–394.
Physiological meteorology (including medical meteorology)—
A classification of weather types. (E. S. Nichols) 431–434.
The cooling of man under various weather conditions. (C. F. Brooks) 423–424.
Human comfort as a basis for classifying weather. (E. C. Donnelly) (2 figs.) 425–426.
Introductory note to papers on the relation of the atmosphere to human comfort. (C. F. Brooks) 423.
The summer and winter weather of selected cities in North America. (G. F. Howe) (4 figs.) 427–430.
Weather types in the climates of Mexico, the Canal Zone, and Cuba. (J. E. Switzer) (1 fig.) 434–437.
Meteorological services—
Meteorological service for the Republic of Turkey. (A. Réthly) 542.
New Chief of the Servicio Meteorológico Español. *Note.* 120.
The seventy-fifth anniversary of the Royal Meteorological Society. 163.
Statistical meteorology (weather records, etc.)—
Meteorological summary for Brazil, November, 1925. (J. de S. Ferraz) 499.
Meteorological summary for southern South America (monthly report furnished by J. B. Navarrete): January, 27; February and March, 120–121; April and May, 222–223; June, 263–264; July, 315; August, 359–360; September, 400; October, 450; November, 498; December, 542.
River and rainfall records in an important lawsuit. *Repr.* 262–263.
Eclipse meteorology—
Notes on changes in some of the weather elements during the solar eclipse of January 24, 1925. (B. M. Varney) (1 fig.) 21–22.
Observations on the solar eclipse of January 24, 1925, at Washington, D. C. (H. H. Kimball) 22–23.
Radiation and polarization measurements during the solar eclipse of April 8, 1925, at Davos, Switzerland. (C Dorno) 208.
Special aerological observations during the solar eclipse of January 24, 1925. (L. T. Samuels) 23.
Meteorology and desert road-building. *Repr.* 263.
Mexico:
Additional note on tropical cyclones of October 22–25, 1925, off the west coast of Mexico. (C. C. Allen) 505–506.
Drought and flood in. (1925) *Abstr., B. M. V.* 313–314.
Weather types in the climate of. (J. E. Switzer) (1 fig.) 434–437.
Michigan:
Average free-air winds at. (C. L. Ray) (3 figs.) 16–20.
Hourly rainfall probabilities at. (C. L. Ray) (3 figs.) 256–258.
Midway Island. Meteorological data for. (A. J. Henry) 357.
Mild winter (1924–25) in northwestern Europe. *Excpts.* 79.
Milham, Willis I. L. C. W. Bonacina's "The question of abnormalities." *Discussion.* 165.
Minimum temperatures. The prediction of, for the Red River Valley. (A. W. Cook) (3 figs.) 443–447.
Missouri. National Elimination Balloon Race from St. Joseph May 1, 1925. 222.
Mitchell, Charles L. "Storms and warnings." (*See* table on page iii of this index.)
Mobile Bay. Two waterspouts in. (A. Ashenberger) 309.
Moisture. *See also* Absolute humidity; Aqueous vapor; Dewpoint; Relative humidity; Temperature (sensible); Temperature (wet-bulb).
Temperature and humidity of the upper air at San Diego, Calif. (B. H. Wyatt) 349.
Monsoons. Note on a monsoon in August, 1925, in the Indian Ocean. (W. E. Hurd) 365.
Monthly Weather Review:
Editorial revision. *Repr.* 542.
Footnotes and citations in contributions to. (B. M. Varney) 542.
Moonrise. A short method of determining the time of. (F. N. Hibbard) 447–448.
Moonset. A short method of determining the time of. (F. N. Hibbard) 447–448.
Munger, Thorton T. Rainfall probability during the fire season in western Washington and Oregon. (2 figs.) 394–397.
Murphy, Robert Cushman. Recent oceanographic phenomena along the coast of South America. 116–117.

National Elimination Balloon Race from St. Joseph, Mo., May 1, 1925. 222.
Navarrete, Julio Bustos. Monthly meteorological summary for southern South America. *Transl., W. W. R. or B. M. V.*
January, 27; February–March, 120–121; April–May, 222–223; June, 263–264; July, 315; August, 359–360; September, 400; October, 450; November, 498; December, 542.
Necrology. Hildebrand H. Hildebrandsson, 1838–1925. *Note, C. F. T.*
Nichols, Esek S. A classification of weather types. 431–434.
Normals. The question of abnormalities. 164–165.
North America. The summer and winter weather of selected cities in. (C. F. Howe) (4 figs.) 427–430.
North Carolina. Hatteras depressions. (M. Coyecque and Ph. Wehrlé) *Transl. B. M. V.* 26–27.
Northern Hemisphere:
The 11-year period in temperature in, in relation to the 11-year sun-spot cycle. (F. Baur) (2 figs.) 204–207.
Monthly pressure variations in, and seasonal weather forecasting. (A. J. Henry) 528–534.
North Pacific Ocean. (*See also* same entry in table on page iii of this index.) Pressure over the northeastern Pacific and in the United States, December, 1924, and January, 1925. (A. J. Henry) (4 figs.) 5–10.
North Pole. *See* Arctic region.
Nunn, Roscoe. Record of dry spells at Nashville, Tenn., 1871–1925. 398.

Oceanography (*see also* Meteorology, Marine):
Oceanography and marine meteorology of the Pacific. (B. M. Varney) *Note.* 498.
Ocean temperatures across the Equator. (W. J. Humphreys) (1 fig.) 146–147.
Recent oceanographic phenomena along the coast of South America. (R. C. Murphy) 116–117.
Optics:
Coronas and iridescent clouds. (C. F. Brooks) 49–58.
Double anti-solor corona by reflected sunlight. (C. F. Brooks) 399.
Local brightness of ultra-violet light. (F. W. P. Götz) *Abstr., H. H. K.* 117.
Looming and multiple horizons. *Note, C. F. B.* 313.
Orchard heaters:
Development and present status of frost-fighting devices. (F. D. Young) (3 figs.) 349–351.
Value of smudge-pots in preventing frost in cranberry bogs. (R. A. Wells and P. Parker) (2 figs.) 351–352.
Orchard temperatures: (*See also* Orchard heaters.)
Further study of the relation between cover crops and orchard temperatures. (F. D. Young) (8 figs.) 387–391.
Oregon:
The climate of, during the Pleistocene Period. (E. T. Hodge) 354–355.
For papers read at the meeting of the American Meteorological Society on June 18, 1925, at Portland, see the following entries: **J. E. Church, F. H. Denison, E. T. Hodge, M. B. Summers, E. C. Wells.**

Oregon—Continued.
Floods in Willamette River. (E. L. Wells) 355.
Rainfall probability during the fire season in western Washington and Oregon. (T. T. Munger) (2 figs.) 394–397.
Orographic wind as an aid to gliding flight in airplanes. *Abstr. B. M. V.* 222.

Pacific Ocean (*see also* North Pacific Ocean, South Pacific Ocean):
Physical oceanography and marine meteorology of the Pacific. (B. M. Varney) *Note.* 498.
Typhoons and depressions over, during typhoon season of 1925 (monthly reports furnished by J. Coronas): July, 321; August, 365–366; September, 495–496; October, 456–457; November, 505; December, 549.
Panama Canal:
The dry season of 1925 in the Panama Canal Zone. (R. Z. Kirkpatrick) 357–359.
Weather types in the climate of the Canal Zone. (J. E. Switzer) (1 fig.) 434–437.
Paraguay. Meteorological summary for (J. B. Navarrete): February and March, 120–121; April, 222–223. *Transl. W. W. R.*
Parker, Perry. Co-author. *See* **Wells and Parker.**
Peppler, W. The meteorological conditions in the free air during two extreme weather types. *Transl., L. T. S.* 220–221.
Periodicities (*see also* Cycles; Correlation):
On the application to meteorology of the astronomical cycle of 744 years. (J. Gabriel) *Transl., B. M. V.* 312.
The three to a three-and-a-half-year periodic pressure oscillation in the free atmosphere. (F. Baur) *Transl., H. C. F.* 392–394.
Peru:
Meteorological summary for February and March, 1925. (J. B. Navarrete) *Transl., W. W. R.* 120–121.
Recent oceanographic phenomena along the coast of South America. (R. C. Murphy) 116–117.
Peterson, Samuel P. Flood protection in Wichita, Kans. 133–134.
Philippine Islands. Typhoons in, in October, 1925. (J. Coronas) 456–457.
Philippine Weather Bureau. Resignation of Father Algué from. 541.
Pilot balloons. (*See also* Aeronautics.) A remarkable two-theodolite pilot-balloon series. (W. C. Haines) (fig.) 68–70.
Pleistocene Period. The climate of Oregon during. (E. T. Hodge) 354–355.
Pluviculture. The art of. (David Starr Jordan) *Repr.* 261.
Potter, William H. A 55-year record of rainfall in Bermuda. 23–24.
Precipitation (*see also* the following entries: Excessive precipitation; Glaze; Hail; Ice storm; Rainfall; Sleet; Snowfall):
Altitude relations—
An analysis of free-air observations in their relation to precipitation. (V. E. Jakl) (12 figs.) 335–343.
Cyclonic distribution—
An analysis of free-air observations in their relation to precipitation. (V. E. Jakl) (12 figs.) 335–343.
Precipitation in the form of ice spicules at temperatures near freezing. (F. N. Weck) 497–498.
Variations—
Drought and flood in Mexico. *Abstr., B. M. V.* 313–314.
A 55-year record of rainfall in Bermuda. (W. H. Potter) 23–24.
Hawaiian rainfall. (A. J. Henry) 10–14.
Hourly rainfall probabilities at Lansing, Mich. (C. L. Ray) 256–258.
Ocean temperatures and seasonal rainfall in southern California. (G. F. McEwen) (9 figs.) 483–489.
A preliminary study of effective rainfall. (J. F. Voorhees) (1 fig.) 63–65.
The rain-bearing winds at Atlanta, Ga. (C. F. von Hermann) (2 figs.) 494–497.
The rainfall capacity of the Equatorial Current a periodic factor in climate. (L. Besson) (2 figs.) *Transl., B. M. V.* 260–261.
Rainfall correlations in Trinidad, B. W. I. *Abstr., B. M. V.* 76.
Rainfall probability during the fire season in western Washington and Oregon. (T. T. Munger) (2 figs.) 394–397.
River and rainfall records in an important lawsuit. *Repr.* 262–263.
Precipitation—Continued.
Variations—Continued.
Seasonal precipitation in California and its variability. (B. M. Varney) (12 figs.) 148–163; 208–218.
Some observations on the cyclonic precipitation of February 22–23, 1925, in the central and eastern United States. (R. H. Weightman) 379–384.
A study of seasonal forecasting for California based on an analysis of past rainy seasons. (L. E. Blochman) 489–493.
Variability of precipitation in the State of Washington. (M. B. Summers) 355.
Measurement of precipitation—
A new type of rain timer. (F. N. Hibbard) (3 figs.) 398–399.
A rain gage of standard commercial materials and parts. (B. C. Kadel) (2 figs.) 66–67.
Pressure:
Variations—
Exner on world pressure and temperature anomalies. *Abstr., R. S. R.* 541.
Monthly pressure variations in the Northern Hemisphere and seasonal weather forecasting. (A. J. Henry) 528–534.
Pressure over the northeastern Pacific and in the United States, December, 1924, and January, 1925. (A. J. Henry) (4 figs.) 5–10.
The three to three-and-a-half periodic pressure oscillation in the free atmosphere. (F. Baur) *Transl., H. C. F.* 392–394.
Geographical distribution—
Pressure over the northeastern Pacific and in the United States, December, 1924, and January, 1925. (A. J. Henry) (4 figs.) 5–10.

Quayle, E. T. The increasing run-off from Avoca Basin [Ireland] (due, apparently, to deforestation). *Repr.* 263.

Rainfall correlations in Trinidad, B. W. I. *Abstr., B. M. V.* 76.
Rain-gage supports. A concrete rain-gage support. 359.
Rain-gages. A rain-gage of standard commercial materials and parts. (B. C. Kadel. (2 figs.) 66–67.
Rainmaking. The art of Pluviculture. (David Starr Jordan.) *Repr.* 261.
Rain-timer. A new type of. (F. N. Hibbard) (3 figs. 398–399.
Ramsay, Walter G. Meteorological conditions on Baker and Howland Islands. 23–24.
Ray, Clifton L.
Average free-air winds at Lansing, Mich. (3 figs.) 16–20.
Hourly rainfall probabilities at Lansing, Mich. (3 figs.) 256–258.
Red River Valley. The prediction of minimum temperatures for. (A. W. Cook) (3 figs.) 443–447.
Reed, Charles D. Monthly forecasts by correlation: June, a key month. (4 figs.) 249–251.
Reed, Thomas R. Meteorological aspects of the San Francisco-Hawaii airplane flight. (2 figs.) 384–387.
Reed, Wesley W. *Translator. See* **Navarrete, J. B.**
Reichelderfer, F. W. The present meteorological needs of aeronautics. 259.
Relative humidity:
Frequencies of selected relations between temperature and relative humidity. *Abstr., B. M. V.* 120.
On the reliability of hair hygrometers. (L. T. Samuels) (1 fig.) 534–536.
Réthly, Anton. Meteorological service for the Republic of Turkey. 542.
River and rainfall records in an important lawsuit. *Repr.* 262–263.
River regulations. 359.
River stages:
Floods in the Willamette River. (E. L. Wells) 355.
River and rainfall records in an important lawsuit. *Repr.* 261–262.
Wide-area forecasting of stream flow on the Columbia and Colorado. (J. E. Church, jr.) 353–354.
Road-building. Meteorology and desert road-building. *Repr.* 263.

Royal Meteorological Society. Seventy-fifth anniversary. *Note*, *B. M. V.* 163.
Run-off. *See* Hydrology.

Samoa. *See* Apia.
Samuels, Leroy T. (*see also* "Free-air summary" in table on page iii of this index):
On the reliability of hair hygrometers. (1 fig.) 534–536.
Special aerological observations during the solar eclipse of January 24, 1925. 23.
San Francisco-Hawaii airplane flight. Meteorological aspects of. (T. R. Reed) (2 figs.) 384–387.
Scientific congresses in Switzerland. *Abstr.*, *B. M. V.* 312.
Shipman, Truman G. The east wind and its lifting effects at Fort Smith, Ark. 536–539.
Siberia. Warm winters in, and their dependence on the condition of the Gulf Stream. *Note.* 165–166.
Simpson, George C. (Excerpts from his presidential address.) 400.
Sky brightness. Energy distribution in the visible spectrum of sunlight and skylight. (H. H. Kimball) (3 figs.) 112–115.
Skylight polarization. Radiation and polarization measurements during the solar eclipse of April 8, 1921, at Davos, Switzerland. (C. Dorno) 208.
Sky radiation. *See* Radiation.
Sleet storms. *See* Storm damage.
Smith, Jesse W., and Stevens, Welby R. The probable 24-hour temperature change at Montgomery, Ala. (1 fig.) 306–308.
Smithsonian Institution:
On the question of day-to-day fluctuations in the derived values of the solar constant. (C. F. Marvin) (7 figs.) 285–303.
Solar-constant, values of. (H. H. Kimball) (3 figs.) 303–306.
Smoke. Effect of local smoke on visibility and solar radiation intensities. (I. F. Hand) (1 fig.) 147–148.
Smudge-pots. Value of, in preventing frost in cranberry bogs. R. A. Wells and P. Parker) (2 figs.) *Abstr.*, *F. D. Y.* 351–352.
Solar constant:
Fluctuations in the values of. (C. Dorno) 519–521.
On the question of day-to-day fluctuations in the derived values of the solar constant. (C. F. Marvin) (7 figs.) 285–303.
Smithsonian solar-constant values. (H. H. Kimball) (3 figs.) 303–306.
The solar constant as an aid to weather forecasting. 76–77.
Solar variations. (H. H. Clayton) 522–525.
Effect of local smoke on visibility and solar radiation intensities. (I. F. Hand) (1 fig.) 147–148.
Energy distribution in the visible spectrum of sunlight and skylight. (H. H. Kimball) (3 figs.) 112–115.
Fluctuations in the values of the solar constant. (C. Dorno) 519–521.
International Commission on Solar Radiation measurements. 312–313.
On the question of day-to-day fluctuations in the derived values of the solar constant. (C. F. Marvin) (7 figs.) 285–303.
Solar radiation:
Radiation and polarization measurements during the solar eclipse of April 8, 1921, at Davos, Switzerland. (C. Dorno) 208.
Records of total solar radiation and their relation to daylight intensity—a correction. (H. H. Kimball) 20.
Smithsonian solar-constant values. (H. H. Kimball) (3 figs.) 303–306.
Solar variations. (H. H. Clayton) (2 figs.) 522–525.
A statistical analysis of solar radiation data. (H. W. Clough) (1 fig.) 343–348.
Solar relations:
Energy distribution in the visible spectrum of sunlight and skylight. (H. H. Kimball) (3 figs.) 112–115.
On the question of day-to-day fluctuations in the derived values of the solar constant. (C. F. Marvin) (7 figs.) 285–303.
Smithsonian solar-constant values. (H. H. Kimball) (3 figs.) 303–306.
A statistical analysis of solar radiation data. (H. W. Clough) (1 fig.) 343–348.
Sunspots and the weather at Galveston, Tex. (I. R. Tannehill) 221–222.
South America (southern). Meteorological summary (monthly report furnished by J. B. Navarrete) *Transl.*: January, 27; February and March, 120–121; April and May, 222–223; June, 263–264; July, 315; August, 359–360; September, 400; October, 450; November, 498; December, 542.
South Atlantic Ocean. Gales in. *Note.* (A. J. McCurdy, jr.) 227.
South Pacific Ocean:
Gales in. *Note.* (A. J. McCurdy, jr.) 227.
Waterspout in. (W. E. Hurd) 505.
Spain. New chief of the Servicio Meteorologico Español. *Note.* 120.
Spanish Honduras. Report on the West Indian hurricane of August 28–September 6, 1924. (F. H. Swain) (Fig.) 77–78.
Spencer, James H. Hailstorm of Sunday afternoon, May 24, 1925, at Baltimore, Md. 262–263.
Spencer, Robin E. (*See* "Rivers and floods," monthly report, in table on page iii of this index.)
Spitzbergen. Amundsen's ships reach Spitzbergen. *Abstr.* 120.
Statistics. *See* Meteorology, mathematics in.
Stevens, Welby R. Tornadoes in Alabama, 1794, to March, 1925, incl. (5 figs. and 1 lithograph) 437–443.
Stevens, Welby R. *Co-author.* *See* **Smith, Jesse W.**, and **Stevens, W. R.**
Stewart, C. D. Measurement of upper-air velocities by observation of artificial clouds. 165.
Storm damage (*see also* Hurricanes; Thunderstorms; Tornadoes; Typhoons):
Tornadoes in Alabama, 1794 to March, 1925, incl. (W. R. Stevens) (5 figs. and 1 lithograph) 437–443.
Iowa, June, 1925. 314.
Iowa, *Dubuque.* July 3, 1925. 314.
Maryland, *Baltimore.* May 24, 1925. (J. H. Spencer) 261–262.
Storm frequency. A new method of charting. (K. Kelsey) (2 figs.) 251–252.
Stratosphere. Sampling the higher atmosphere. (W. J. Humphreys) 352–353.
Streamflow. *See* Hydrology.
Sudan. Cotton growing in relation to climate in Egypt and the Sudan. *Abstr.*, *J. B. K.* 118–119.
Summers. The summer and winter weather of selected cities in North America. (G. F. Howe) (4 figs.) 427–430.
Summers, Melvin B. Variability of precipitation in the State of Washington. 355.
Sunspots:
The 11-year period in temperature in the Northern Hemisphere in relation to the 11-year sunspot cycle. (F. Baur) (2 figs.) 204–207.
Sunspots and the weather at Galveston, Tex. (I. R. Tannehill) 221–222.
Wolfer relative sunspot numbers, 1920–1924. 76–77.
Supersaturation in the free air. An extraordinary case of. *Abstr.*, *B. M. V.* 79.
Sverdrup, H. U. The north-polar cover of cold air. (4 figs.) 471–475.
Swain, Capt. F. H. Report on the West Indian hurricane of August 28–September 6, 1924. (1 fig.) 77–78.
Swiss Alps. Evaporation measurements in. (1 fig.) 355–356.
Switzer, J. Elmer. Weather types in the climates of Mexico, the Canal Zone, and Cuba. (1 fig.) 434–437.
Switzerland:
Radiation and polarization measurements during the solar eclipse of April 8, 1921, at Davos. 208.
Scientific congresses in. *Abstr.*, *B. M. V.* 312.

Table of ocean gales and storms. (Monthly.) (*See* table on page iii of this index.)
Table of severe local hail and wind storms. (Monthly.) (*See* table on page iii of this index.)
Talman, Charles Fitzhugh. (*See also* Weather Bureau Library in table on page iii of this index.) Obituary of Hildebrand H. Hildebrandsson. 311.
Tannehill, Ivan R. Sunspots and the weather at Galveston, Tex. 221–222.
Temperature:
On the changes of temperature in the lower atmosphere by conduction and otherwise. (S. Chapman) *Repr.* 264.
The criteria of a cold winter. (A. J. Henry) 67–68.
The 11-year period in temperature in the Northern Hemisphere in relation to the 11-year sunspot cycle. (F. Baur) (2 figs.) 204–207.

Temperature—Continued.
Exner on world pressure and temperature anomalies. *Abstr., R. S. R.* 541.
Frequencies of selected relations between temperatures and relative humidity. *Abstr., B. M. V.* 120.
High maximum temperatures in late spring of 1925. (1 fig.) 246–248.
Marvin and Day on normals of daily temperature in the United States. *Abstr., A. J. H.* 117–118.
The north-polar cover of cold air. (H. U. Sverdrup) (4 figs.) 471–475.
The prediction of minimum temperatures for the Red River Valley. (A. W. Cook) (3 figs.) 443–447.
The probable 24-hour temperature change at Montgomery, Ala. (Jesse W. Smith and W. R. Stevens) (1 fig.) 306–308.
Temperature and humidity of the upper air at San Diego, Calif. (B. H. Wyatt) 349.
Wagner on a 16-year period in temperature. *Abstr., R. S. R.* 541.
Temperature normals. Marvin and Day on normals of daily temperature in the United States. *Abstr., A. J. H.* 117–118.
Tennessee:
A preliminary study of effective rainfall. (J. F. Voorhees) (1 fig.) 63–65.
Record of dry spells at Nashville, 1871–1925. (R. Nunn) 398.
Texas. Sunspots and the weather at Galveston. (I. R. Tannehill) 221–222.
Thomson, Andrew. Upper-air observations at Apia [Samoa] Observatory. (2 figs.) 255–256.
Thunderstorms. (*See also* Storm damage.) Cirro-cumuli and thunderstorms. (R. M. Dole) 310.
Topolansky, Moriz. Frequencies of selected relations between temperatures and relative humidity.
Tornadoes (*see also* Hurricanes; Storm damage; Typhoons):
Geographical distribution—
Alabama. 1794 to March, 1925, incl. (W. R. Stevens) 437–443.
Florida, *Miami.* April 5, 1925. 145–146.
Idaho. July 4, 1925. (F. P. Holt) 314.
Illinois. March 18, 1925. (A. J. Henry) (3 figs.) 141–145.
Indiana. March 18, 1925. (A. J. Henry) (3 figs.) 141–145.
Iowa. June, 1925. 314.
Oregon, *Willamette Valley.* November 11, 1925. (B. M. Varney) 498.
Tennessee. March 18, 1925. (A. J. Henry) (3 figs.) 141–145.
United States. 1916–1923. (H. C. Hunter) (2 figs.) 198–204.
Chronological distribution—
1794–March, 1925. Alabama. (W. R. Stevens) 437–443.
1925, March 18. Indiana, Illinois, Tennessee. 141–145.
April 5. Miami, Fla. 145–146.
June. Iowa. 314.
July 4. Idaho. 314.
November 11. Salem, Oregon. 498.
Trees. *See* Big trees.
Trinidad, B. W. I.:
The climate of. (P. E. James) (4 figs.) 71–75.
Rainfall correlations in. *Abstr., B. M. V.* 76.
Turkey, Republic of. Meteorological service for. (A. Réthly) 542.
Typhoons (*see also* Hurricanes; Storm damage):
The place of origin and recurvature of typhoons. (1 fig.) 1–5. [Continued from December, 1924, MONTHLY WEATHER REVIEW.]
Pacific Ocean.—Typhoon season of 1925 (monthly report, by J. Coronas): July, 321; August, 365–366; September, 405–406; October, 456–457; November, 505; December, 549.
Yap.—December, 1925. (J. Coronas) 549–550.

Ultra-violet light. Local brightness of. (F. W. P. Götz) *Abstr., H. H. K.* 117.
United States:
Climatological tables. (Monthly.) *See* table on page iii of this index.
Cyclones and anticyclones. (Monthly report.) (W. P. Day) *See* table on page iii of this index.
Drought of 1925. (P. C. Day) 310–311.
United States—Continued.
Effect of weather on crops and farming operations. (Monthly report.) (J. B. Kincer) *See* table on page iii of this index.
Free-air summary. (Monthly report.) (V. E. Jakl) *See* table on page iii of this index.
General meteorological conditions. (Monthly report.) (A. J. Henry) *See* table on page iii of this index.
Great Lakes' levels. (Monthly report.) (U. S. Lake Survey) *See* table on page iii of this index.
Marvin and Day on normals of daily temperature in the United States. (A. J. Henry) *Abstr.* 117–118.
Pressure over the northeastern Pacific and in the United States, December, 1924, and January, 1925. (A. J. Henry) (4 figs.) 5–10.
Rivers and floods. (Monthly report.) (H. C. Frankenfield and R. E. Spencer) *See* table on page iii of this index.
Solar and sky radiation measurements. (Monthly report.) (H. H. Kimball) *See* table on page iii of this index.
Some observations on the cyclonic precipitation of February 22–23, 1925, in the central and eastern United States. (R. H. Weightman) (3 figs.) 379–384.
Tornadoes of the United States, 1916–1923. (H. C. Hunter) (2 figs.) 198–204.
Ward's "The climates of the United States." *Review* by B. M. Varney. 540–541.
The warm February [1925] in the United States. (A. J. Henry) (4 figs.) 191–198.
The weather of 1925 in. (A. J. Henry) (2 charts) 539–540.
The weather elements. (Monthly report.) *See* table on page iii of this index.
United States Weather Bureau. Use of the Beaufort scale of wind by. (B. M. Varney) *Note.* 119–120.
Uruguay. Meteorological summary for. (J. B. Navarrete): February and March, 120–121; April, 222–223.
Varney, Burton M.
Changes in some of the weather elements during the solar eclipse of January 24, 1925, notes on. (1 fig.) 21–22.
Meteorological conditions in the Eurasian sector of the Arctic. (1 fig.) 475–479.
Seasonal precipitation in California and its variability. (12 figs.) Part I, 148–163; Part II, 208–218.
Use of the Beaufort scale of wind by the United States Weather Bureau. 119–120.
Ward's "The climates of the United States." 540–541.
Various abstracts, notes, reviews, translations.
Vienna, Austria. Frequencies of selected relations between temperature and relative humidity. *Abstr. B. M. V.* 120.
Visibility. Effect of local smoke on visibility and solar radiation intensities. (I. F. Hand.) (1 fig.) 147–148.
Von Herrmann, Charles F. The rain-bearing winds at Atlanta, Ga. (2 figs.) 494–497.
Voorhees, John F. A preliminary study of effective rainfall. (1 fig.) 63–65.
Wagner, ——. On a 16-year period in temperature. *Abstr., R. S. R.* 541.
Walker, Gilbert T. Correlation in seasonal variations of weather; a further study of world weather. 252–254.
Ward, Robert DeCourcy. "The climates of the United States." (*Review* by B. M. Varney) 540–541.
Washington (State):
Rainfall probability during the fire season in western Washington and Oregon. (T. T. Munger) (2 figs.) 394–397.
Variability of precipitation in the State of. (M. B. Summers) 355.
Washington, D. C. Observations on the solar eclipse of January 24, 1925. (H. H. Kimball) 22–23.
Waterspouts:
In the South Pacific Ocean. (W. E. Hurd) 505.
Two waterspouts in Mobile Bay, June 12, 1925. A. Ashenberger) 309.
Waterspout in latitude 23° N. 399.
Weather of 1925 in the United States. (A. J. Henry) (2 charts) 539–540.
Weather Bureau Library. Recent additions, and recent papers bearing on meteorology. (Monthly lists) (C. F. Talman) *See* table on page iii of this index.
Weather Bureau Staff meetings, 1924–25. (E. W. Woolard) 264–265.
Weather forecasts. Using weather forecasts for predicting forest-fire danger. (H. T. Gisborne) 58–60.
Weather maps. A new method of charting storm frequency. (K. Kelsey) (2 figs.) 251–252.
Weather types:
A classification of. (E. S. Nichols) 431–434.
In the climates of Mexico, the Canal Zone, and Cuba. (J. E. Switzer) (1 fig.) 434–437.

Weather warnings. (*See also* Forecasts.) *See* Storms and weather warnings in table on page iii of this index.
Weck, Fred N. Precipitation in the form of ice spicules at temperatures near freezing. 497–498.
Wehrlé, Ph. *Co-author. See* **Coyecque and Wehrlé.**
Weightman, Richard Hanson. (*See also* Storms and warnings, in table on page iii of this index.)
Some observations on the cyclonic precipitation of February 22–23, 1925, in the central and eastern United States. (3 figs.) 379–384.
Wells, Edward L. Floods in the Willamette River. 355.
Wells, Roy A., and Parker, Perry. Value of smudge-pots in preventing frost in cranberry bogs. (2 figs.) *Abstr. F. D. Y.* 351–352.
Willamette River. Floods in. (E. L. Wells) 355.
Williams, C. B. Cotton growing in relation to climate in Egypt and the Sudan. *Abstr.* 118–119.
Wind force. Use of the Beaufort scale of wind by the U. S. Weather Bureau. (B. M. Varney) 119–120.
Winds:
Effects of winds—
The east wind and its lifting effects at Fort Smith, Ark. (T. G. Shipman) 536–539.
General circulation of the atmosphere—
Hatteras depressions. (M. Coyecque and Ph. Wehrlé) *Transl., B. M. V.* 26–27
The north-polar cover of cold air. (H. U. Sverdrup) (4 figs.) 471–475.
Some observations on the cyclonic precipitation of February 22–23, 1925, in the central and eastern United States. (R. H. Weightman) (3 figs.) 379–384.
Winds—Continued.
Reduction of observations—
Measurement of upper-air velocities by observation of artificial clouds. (C. D. Stewart) 165.
Winters:
The criteria of a cold winter. (A. J. Henry) 67–68.
Mild winter [1924–25] in northwestern Europe. *Excpts.* 79.
Mild winter of 1924–25 in Berlin. *Note.* 222.
The summer and winter weather of selected cities in North America. (G. F. Howe) (4 figs.) 427–430.
Warm winters in Siberia and their dependence on the condition of the Gulf Stream. *Note.* 165–166.
Wolfer, A. Relative sunspot numbers, 1920–1924. 76–77.
Woolard, Edgar W.
On the mean variability in random series. 107–111.
Solar-variation papers by Dorno. *Discussion.* 528.
The Weather Bureau Staff meetings, 1924–25. 264–265.
World weather:
Correlation in seasonal variations of weather; a further study of world weather. (Gilbert T. Walker) 252–254.
Exner on. *Abstr., R. S. R.* 541.
Wyatt, B. H. Temperature and humidity of the upper air at San Diego, Calif. 349.
Young, Floyd D.
Development and present status of frost-fighting devices. (3 figs.) 349–351.
Further study of the relation between cover crops and orchard temperatures. (8 figs.) 387–391.
See also **Wells and Parker.** Abstr.
Young, Frederic A. *See* "North Atlantic Ocean," in table on page iii of this index.

○